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RFD AUSTRALIA PTY LTD

OWNERS MANUAL CYCLONE

INFLATABLE PERSONAL FLOTATION DEVICE (PFD)

Inflatable life vest 150N without harness, manual inflation
Inflatable life vest 150N with harness, manual inflation
Inflatable life vest 150N with harness, auto/manual inflation
Inflatable life vest 150N without harness, auto/manual inflation

WARNING!

This PFD will not float you without first being inflated.
Each CO_2 gas cylinder will only inflate the PFD once.
You must rearm this PFD after each use of the CO_2 gas cylinder.

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SPECIFICATIONS:

Performance Level 150
User Weight: 40kgs +
Chest size: Adult Multi
PFD Approved to : AS4758.1
Harness Approved to: AS2227.2006 (when harness included)
This lifejacket is suitable for offshore navigation performance level 150

PERSONAL FLOTATION DEVICE	AS4758.1
Application	Performance Level
Offshore, Extreme Conditions, Special Protective Clothing, Heavy Equipment	275
Offshore, Foul Weather Clothing	150
Sheltered Waters, Light Clothing	100
Swimmers only, Sheltered Waters, Help at Hand, Limited Protection Against Drowning	50
Special Purpose Device	All Performance Levels
WARNING: FLOTATION DEVICES ONLY REDUCE THE RISK OF DROWNING, THEY DO NOT GUARANTEE RESCUE.	

INSTRUCTIONS FOR USE:

1. How to check Inflation System Status Indicators:

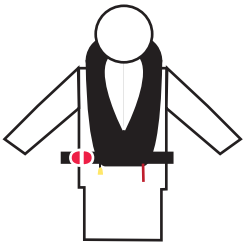
Check Inflation System Status Indicators through the zip panel.

Ensure that the Inflation System Status Indicator is green. If the Inflation System Status Indicator is red, the mechanism has been fired or is incorrectly fitted.

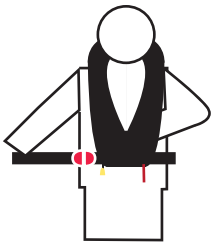
DONNING INSTRUCTIONS:

DON LIKE A VEST

STEP 1
Put your head through first. Then insert your arms through the strap. Keep the buckle in front of you.



STEP 2
Close the buckle.



STEP 3
Adjust the webbing with the slide located on right side. A comfortably snug fit should be obtained. Tuck the free end of belt under the waist strap.

Note: A whistle is attached to the PFD. This can be used to attract attention if you are in the water.

NOTE

1) This is not a PFD until fully inflated.
2) Train yourself in the use of the device, do not use as a cushion.
3) The CO^2 gas cylinders are dangerous goods; keep them away from children and do not misuse them.
4) Full performance may not be achieved when wearing waterproof clothing or in other circumstances.
5) Diapers provide buoyancy when using the PFD; do not wear diapers while using this PFD.
6) The recommended temperature range on use is 5°C to 40°C

USE IDENTIFICATION AND SERVICE RECORD

CHECK THIS DEVICE AT THE BEGINNING OF EACH SEASON AND PRIOR TO EACH BOAT TRIP.

WE RECOMMEND THIS DEVICE BE SERVICED BY AN RFD AUTHORIZED REPAIR FACLITY EVERY 2 YEARS.

INFLATION AND DEFLATION:

INFLATION

Automatic inflation PFD: The PFD will inflate when fully immersed in water. Automatic PFDs can also be manually inflated by grasping the manual infation pull tab and pulling sharply downward.

Manual inflation PFD: The PFD is manually inflated by grasping the manual inflation pull tab and pulling sharply downward.

Oral Inflation: The oral inflation tube is located inside the cover on the wearer's right side. To inflate orally, access the inflation tube by opening the top portion of the cover, remove the dust cap, and blow air into the tube until the inflatable chamber is firm.

Note: Do not inflate the PFD orally and then inflate with CO^2 cylinder as the chamber could be damaged.

DEFLATION

The deflation tab is located on top of the dust cap. Turn the dust cap upside down and insert the deflation mechanism into the oral tube. Hold the deflation mechanism in place with your finger and gently squeeze all the air out of the PFD.

If the PFD has inflated while being worn, it may be necessary to partially deflate the PFD in order to remove it over your head.

To remove all air, roll the PFD into a ball and squeeze while operating the deflation mechanism. The PFD will be difficult to fold and re-pack properly if not completely deflated.

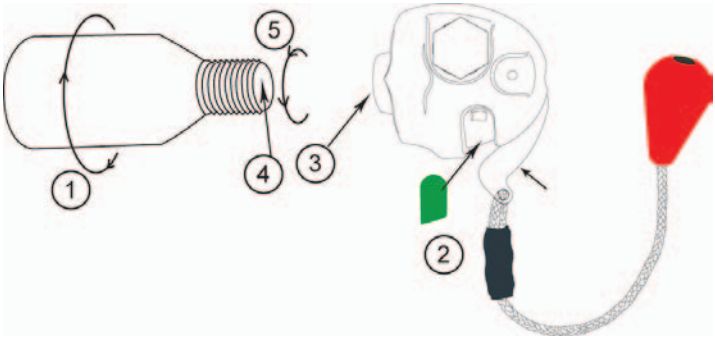
Practice wearing and adjusting your inflatable PFD while in the water in order to be prepared for an emergency!

Practice wearing and inflating your PFD using different types of clothing. Wade into the water and manually inflate, or allow your PFD to inflate automatically. Practice until you have complete confidence in the performance of your PFD.

REARMING INSTRUCTIONS:

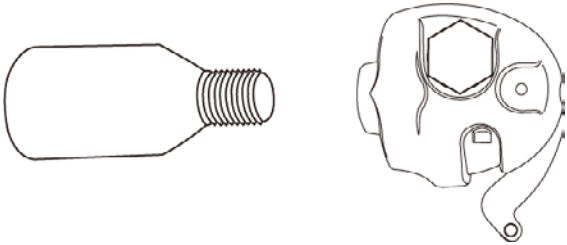
Note: Rearming must follow the sequence below.

UML MANUAL INFLATOR



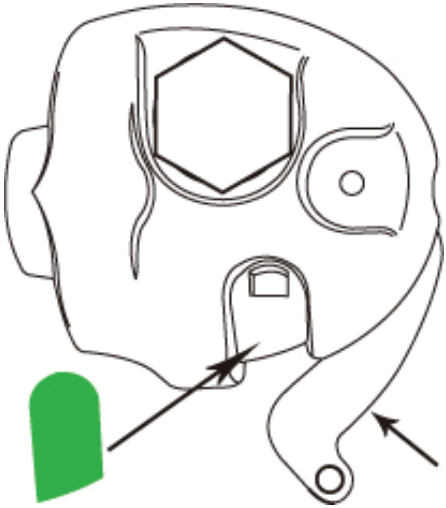
The charge of the CO_2 cylinder for your jacket is 33 grammes.

Step 1: Unscrew used CO^2 cylinder in a counterclockwise direction and immediately discard. Do not insert new cylinder at this time.

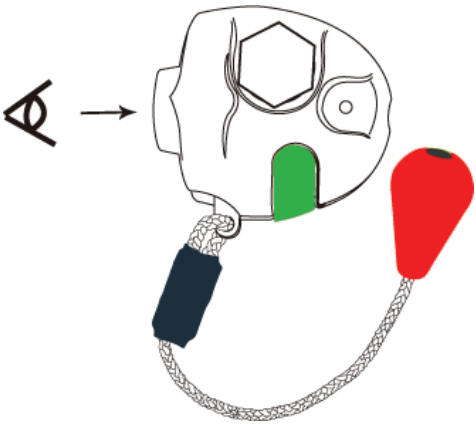


Step 2: Close manual inflator arm within inflator body and carefully insert a new green indicator tab so that it fully covers the red semi-circle on the body.

To avoid confusion later in the rearming process, we suggest you dispose of the old CO cylinder immediately.

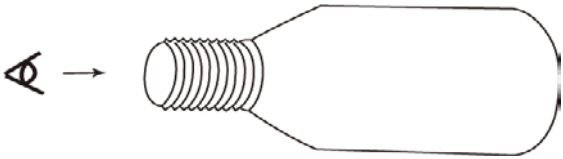


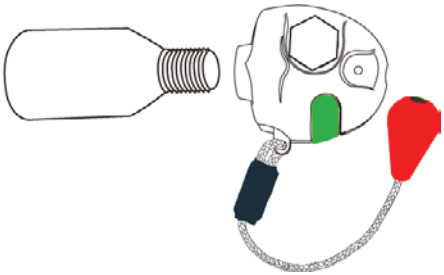
Step 3: Look into threaded cylinder receiver and view the gasket. If it is worn, contact an RFD service station.



Step 4: Inspect the face of the new cylinder. Be sure it is smooth and has no holes or scratches. There is a gross weight on the cylinder. If you have any questions about cylinder integrity, weigh the cylinder on a small scale, such as a postage scale.

Compare the weight printed on the cylinder to the actual weight. If they do not match, get another cylinder.





Step 5: Screw the new cylinder in a clockwise direction firmly into the inflator. Do not over-tighten, but ensure the fit is tight.

Step 6: Check the inflator arming indicator every boating trip. The indicator and cylinder tightness tell you if there is a need for service. Check the cylinder face regularly to ensure it is not punctured.

Be sure cylinder is screwed in tight.

UML AUTOMATIC/MANUAL INFLATOR (MK5) DISASSEMBLY (SEE DIAGRAM)

Step 1: Unpack or open the PFD so that the manual/automatic inflator is visible.

Step 2: Remove gas CO^2 cylinder by firmly rotating cylinder counterclockwise. Discard the old cylinder.

Step 3: Remove cap by turning counterclockwise. Discard the cap.

Step 4: Check the date on the bobbin in the rearm kit. The date should not be over three years from today's date.

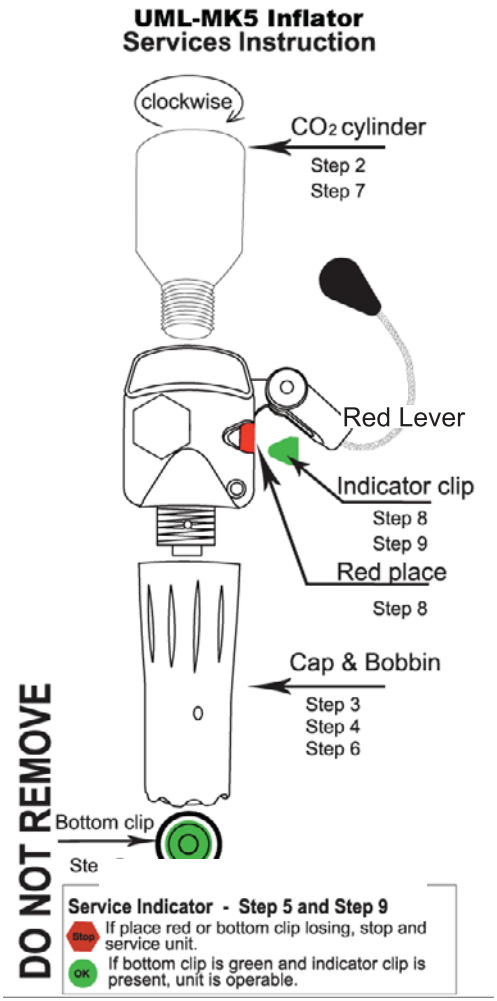
Step 5: Check cap bottom to ensure it is green.

Step 6: IMPORTANT
Install cap by screwing clockwise until it meets the inflator body shoulder. (No gap).

Step 7: Install cylinder by rotating clockwise into inflator until cylinder is secured firmly in inflator.

Step 8: Place indicator clip over red lever by aligning the arms on the clip with the slots in the inflator. Push firmly in the middle of the clip to snap in place.

Step 9: Check to make sure service indicator is green and green indicator clip is firmly attached.



If red lever or bottom clip is loose, stop and service the unit.

RE-FOLDING AND RE-PACKING:

Note: completely deflate and rearm the PFD – carefully read the entire repacking instructions to repack

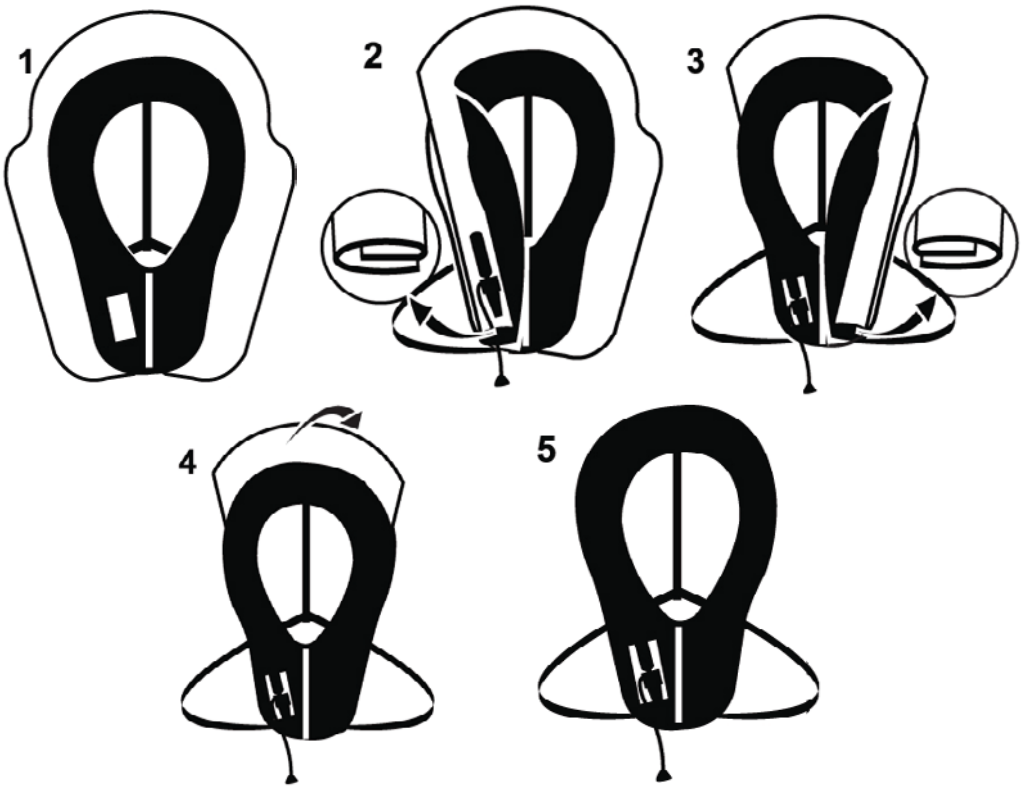
1. Lay the PFD flat.

2. Fold the left lobe over and mate velcro strip.

3. Fold the right lobe over and mate velcro strip.

4. Fold the top lobe over and mate velcro strip.

5. Examine all Velcro strips to ensure good contact



PRECAUTIONS FOR USE IN FREEZING TEMPERATURES:

The gas in a CO^2 cartridge expands in hot weather and contracts in cold weather.

At –30° F (–33°C) the bladder fill is 87% of the volume created at 70°F (22°C).

Under freezing conditions the CO^2 fills more slowly and achieves less buoyancy. This can be compensated by partly inflating the PFD with one or two breaths of air through the oral tube.

Caution: Do not fully inflate by blowing in the oral tube and then inflate with the CO^2 cylinder. Repeated CO^2 inflation after oral inflation may damage the PFD.

IS YOUR PFD IN GOOD AND SERVICEABLE CONDITION?

Check your PFD between outings to be sure that it is properly armed; that it is free of rips, tears or holes; that all seams are securely sewn; and that the fabric, straps and hardware are still strong. Inspect the inflatable portion of the PFD in accordance with the Care and Maintenance Instructions below.

CARE AND MAINTENANCE INSTRUCTIONS:

1) Each Use: Examine the service indicator through the zip panel, ensuring it is green. If the service indicator is red, the mechanism has been fired or is incorrectly fitted. Ensure the gas cylinder is screwed tightly into the firing system.

2) Every six months, conduct a simple leak test. Test the PFD for general leakage by orally inflating your inflatable vest until the chamber is firm and let it stand overnight.

Cleaning and Storing Your Inflatable PFD

Prior to sponging or washing remove automatic capsules from the firing mechanism. Allow to dry thoroughly afterwards

Remove heavy stains from jacket using pre-wash stain remover only. Hand wash in warm water using regular liquid or powdered detergents. Do not use bleach or fabric softener. Do not dry-clean, iron, use a heater or tumble dry to quicken the process.

Hang to dry on a plastic coat hanger. Always store your inflatable vest in a dry place out of direct sunlight. Refer to Re-arming instructions for bobbin replacement.

WHY ARE PFDS REQUIRED SAFETY EQUIPMENT?

Drowning is the leading cause of fatalities involving recreational boating.
A PFD provides flotation to help keep your head above water, help you to stay face up in the water, and increase your chances for survival and rescue. Most adults only need an extra 3.1kgs to 5.4 kgs of flotation to keep their heads above water. The proper size PFD will properly support the weight of the wearer.

Since this inflatable PFD does not have inherent buoyancy, it provides flotation only when inflated. Familiarize yourself with the use of this PFD so you know what to do in an emergency.

HOW AND WHY TO TEST YOUR PFD:

Inflate your PFD and try it out in the water to:

> Make sure it floats you:
Comfortably (when worn properly)
Adequately for expected wave conditions

Body shapes/densities affect performance

> Make sure it works:
Activating the CO^2 inflation system
Re-arming the CO^2 inflation system
Using the oral inflator tube

To check the manual inflation system (with CO^2 cylinder removed); determine that the CO^2 cylinder piercing pin moves freely when pushing up on the lever arm. (Look into the threaded cylinder receiver to locate piercing pin) Repeat this several times to check the manual inflation system.

We recommend that you purchase two re-arming kits.
One kit is to be used immediately in testing the inflation system
(see **HOW DO YOU TEST YOUR PFD USING THE MANUAL/AUTOMATIC INFLATOR?**) and the other to carry on board as a spare.

We recommend that you test the automatic inflation system in the water at the beginning of each boating season. By doing this, you demonstrate that the automatic inflation system is still working properly and reduce the likelihood of premature inflation and its associated dangers.

HOW DO YOU TEST YOUR PFD USING THE AUTOMATIC INFLATOR?

1) To test your inflatable PFD, you will need your fully armed PFD, and re-arming kit approved for your PFD.

2) Put on the PFD.

3) Get into shallow water, just deep enough that you can stand with your head above the surface. Once the inflator is underwater the PFD should fully inflate automatically within 10 seconds.

4) See if the PFD will float you on your back or just slightly back of vertical. In a relaxed floating position, verify that your mouth is well above the water's surface. Note the effect of where you hold your legs on how you float.

5) Get out of the water and remove the PFD. Remove the used CO^2 cylinder and the used bobbin from the PFD inflator. Deflate the PFD by depressing the oral inflator valve.

6) Let the PFD dry thoroughly. Keep the cap off the inflator while drying. Re-arm and repack the PFD in accordance with this manual.

HOW DO YOU TEST YOUR PFD USING THE MANUAL INFLATOR?

1) To test your inflatable PFD, you will need your fully armed PFD, and re-arming kit approved for your PFD.

2) Put on the PFD.

3) Activate the inflation system by jerking firmly downward on the pull tab. The PFD should fully inflate within five seconds.

4) Get into shallow water, just deep enough that you can stand with your head above the surface.

5) See if the PFD will float you on your back or just slightly back of vertical. In a relaxed floating position, verify that your mouth is well above the water's surface. Note the effect of where you hold your legs on how you float.

6) Get out of the water and remove the PFD. Remove the used CO_2 cylinder assembly from the PFD inflator. Completely deflate the PFD using the oral inflator.

7) Let the PFD dry thoroughly. See Cleaning and Storing of your PFD. Re-arm and repack the PFD in accordance with this manual.

HOW DO YOU TEST YOUR PFD USING THE ORAL INFLATOR?

1) To test the oral inflator on your inflatable PFD, you will not need any spare parts, or re-arming kits.

2) Remove the CO^2 cylinder, to prevent inadvertent activation of the manual inflation system, which could potentially damage the PFD. Unscrew and remove the cap and bobbin. Otherwise the bobbin will disintegrate during water immersion.

3) Put on the PFD

4) Get into shallow water, just deep enough that you can stand with your head above the surface.

5) If you are a weak swimmer or non-swimmer, inflate the PFD partially so that you are supported sufficiently to be able to complete inflation without touching the bottom. Note this level of inflation because it is the minimum needed for you to safely use this inflatable PFD.

6) Fully inflate the PFD using the oral inflator.

7) See if the PFD will float you on your back or just slightly back of vertical. In a relaxed floating position, verify that your mouth is well above the water's surface. Note the effect of where you hold your legs on how you float

8) Get out of the water and remove the PFD. Completely deflate the PFD using the oral inflator.

9) Let the PFD dry thoroughly. See Cleaning and Stowage of your PFD.
Re-arm and repack the PFD in accordance with this manual.

WEAR YOUR PFD:

In approximately 80 percent of all boating fatalities the victims were not wearing a PFD. Most fatal accidents happen on calm sunny days. This style of inflatable PFD is much more comfortable to wear than other PFD types.
Get into the habit of wearing this PFD.

Non-swimmers and children especially should wear a hybrid or noninflatable PFD at all times when on or near the water.

HYPOTHERMIA:

Prolonged exposure to cold water causes a condition know as hypothermia – a substantial loss of body heat, which leads to exhaustion and unconsciousness. Most drowning victims first suffer from hypothermia. The following chart shows the effects of hypothermia.

How hypothermia affects most adults:

Water Temperature °C (°F)	Exhaustion or Unconsciousness	Expected Time of Survival
0.3 (32.5)	Under 15 min	Under 15-45 min
0.3-4 (32.5-40)	15-30 min	30 - 90 min
4-10(40-50)	30-60 min	1 - 3 hrs
10-16 (50-60)	1 - 2 hrs	1 - 6 hrs
16-21 (60-70)	2 - 7 hrs	2 - 40 hrs
21-27 (70-80)	2 - 12 hrs	3 hrs. to Indefinite
Over 27	Indefinite	Indefinite

PFDs can increase survival time because they allow you to float without using energy treading water and because of their insulating properties. Naturally, the warmer the water, less insulation you will require.

When operating in cold waters [below 60°F (15.6°C)] you should consider using a coat or jacket style PFD or thermal protective PFD as they cover more of the body than the vest or belt style PFDs. Some points to remember about protection from Hypothermia:

1) Always wear your inflatable PFD. Even if you become incapacitated due to hypothermia, the Inflatable PFD will keep you afloat and greatly improve your chances of rescue.

2) Do not attempt to swim unless it is to reach a nearby craft, fellow survivor, or a floating object on which you can lean or climb. Swimming increases the rate of body heat loss. In cold water swimming is not recommended. Keep your head out of the water. This will greatly lessen heat loss and increase your survival time.

3) Use the standard H.E.L.P. position when wearing an inflatable PFD, drawing the legs up to a second position, because doing so will help you conserve body heat.

4) Keep a positive attitude about your survival and rescue. This will improve your chances of extending your survival time until rescued. Your will-to-live does make a difference!

5) If there is more than one person in the water, huddling together is recommended while waiting to be rescued. This action tends to reduce the rate of heat loss and thus increase the survival time.

EACH OF THESE DEVICES IS INTENDED TO HELP YOU SAVE YOUR OWN LIFE:

For your PFD to function properly, follow these suggestions to verify that it fits, floats, and remains in good condition.

1) Check the inflation mechanism status indicator before each use.

2) Get into the habit of re-arming the inflation mechanism immediately after each CO^2 inflation (be sure the inflator is dry before re-arming).

3) Try on your PFD and adjust it until it fits comfortably in and out of the water.

4) Mark your PFD with your name if you are the only wearer.

5) Do not alter your PFD. If it doesn't fit properly, get one that does. An altered device is no longer an approved device.

6) Your PFD is not intended for use as a fender or cushion.

7) If your PFD is wet, allow it to dry thoroughly before storing it. Store it in a well-ventilated area.

8) Do not dry your PFD in front of a radiator or other source of direct heat.

DO NOT ATTACH PFDS TO YOUR BOAT:

Each PFD has straps, hooks, buckles, or other means for securing the device in place on the water. Some PFDs also incorporate decorative d-ring or tabs. Such items are not to be used to attach the device to the boat. Attaching the device to the boat will not permit it to perform as intended.

IMPORTANT SAFETY HARNESS INFORMATION

Models with a sailing harness are designed to prevent the user from falling overboard when used with a tether with an under-load quick-release hook.

Care and attention must be taken to ensure that the harness is used and maintained correctly.

The harness should be worn as high on the chest as possible, but in all cases, at least 5cm above the lowest rib measured from the bottom of the belt and should not be used if it does not fit in this manner. Adjust the harness using the strap adjuster so that the harness is as snug as tolerable.

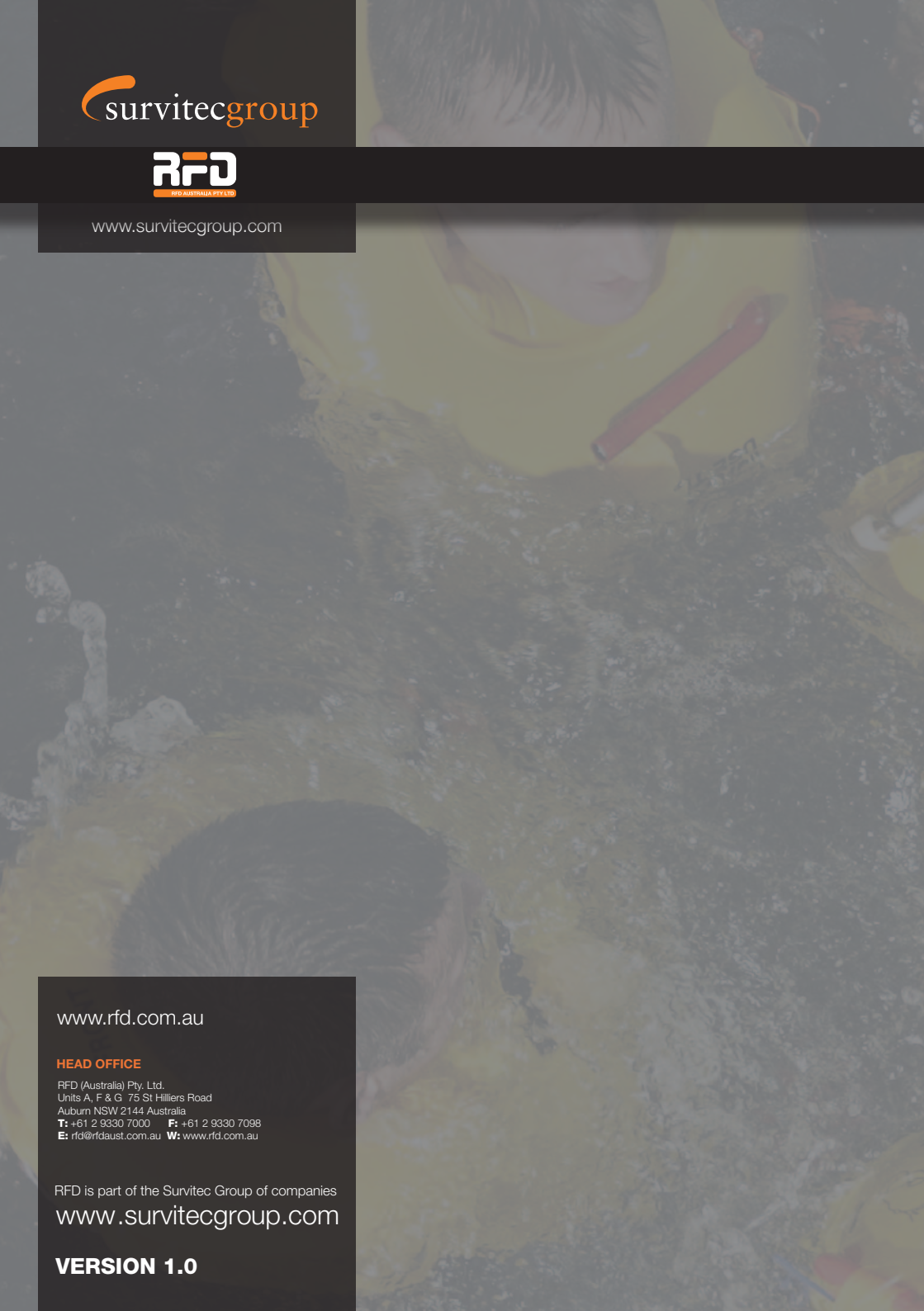
Failure to adjust the harness properly could result in injury.

When attached to the boat use a tether of less than 2m in length with quick-release under-load hardware.

FIG. 4
Ensure that a tether is secured to D-ring.

Warning: Use of a sailing harness to prevent falling overboard presents several risks. In case of capsizing or sinking, the boat may take you down. As such, ensure that any tether used has quick-release underload hardware. This harness has not been designed fall arrest, lifting or climbing situations and should not be relied upon in any of these instances.

MODEL:		
DATE:	SERIAL NUMBER:	
OWNERS NAME:		
SERVICE DATE	NEXT SERVICE DATE	AUTHORISED FACILITY STAMP



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